



Preliminary Stratigraphic Database for the Subsurface Tertiary and Uppermost Cretaceous Sediments of Dorchester County, South Carolina

Chapter C: Drill Hole Data Charts Used in the Preliminary Stratigraphic Database for Subsurface Sediments of Dorchester County, South Carolina

By G.S. Gohn, L.E. Edwards, L.M. Bybell, P.G. Chirico, R.A. Christopher, N.O. Frederiksen, D.C. Prowell, J.M. Self-Trail, and R.E. Weems

U.S Geological Survey Open-File Report 00-049-C

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South Carolina Department of Natural Resources*

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This report contains graphical stratigraphic logs and paleontologic data tables for six drill holes located in Dorchester County, South Carolina. The six holes and their numerical designations are:

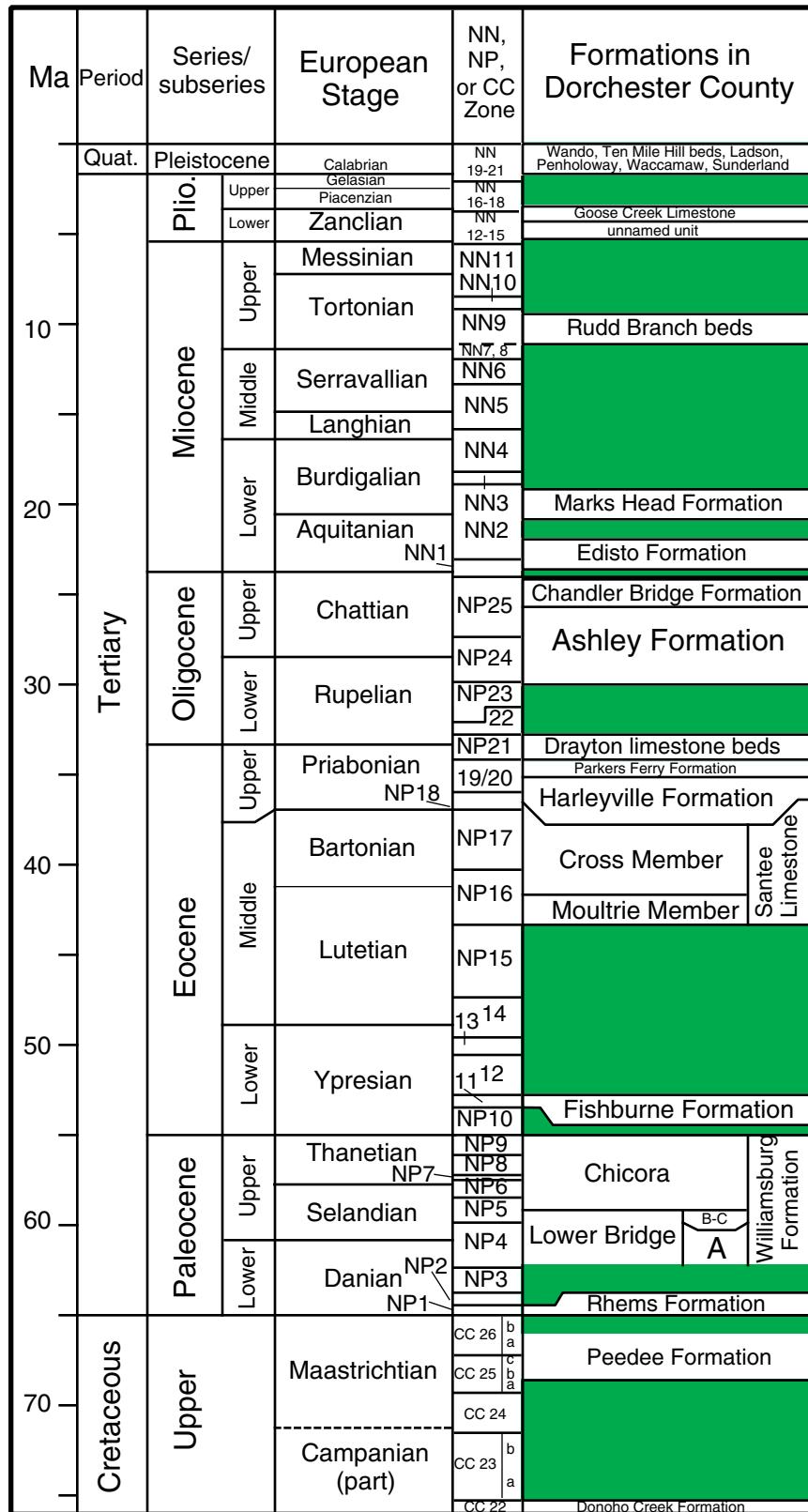
USGS-Clubhouse Crossroads No. 1 (DOR-037)
Summerville water well (DOR-052)
USGS-Pregnall No. 1 (DOR-208)
USGS-St. George No. 1 (DOR-211)
USGS-Stallsville No. 1
USGS-Stallsville No. 2 .

The Clubhouse Crossroads and Pregnall drill holes are continuously cored stratigraphic test holes. The St. George and Stallsville No. 2 test holes were cored throughout half or more of their length. Only a short interval was cored at the base of Stallsville No. 1, and no cores were recovered from the Summerville well.

Two types of logs are presented for each of the six drill holes. The FIELD LOGS contain all of the available geophysical logs for each drill hole plus selected comments regarding drilling and sampling. The GEOSUMMARY LOGS contain a wide range of lithologic, biostratigraphic, and nomenclatural information for the stratigraphic section encountered in each drill hole.

In addition to the logs, tables of paleontologic information, including fossil occurrences, zones, and ages, are provided for most of the drill holes.

Additional technical and geologic information for these drill holes and related subjects is contained in Chapter B of this volume.

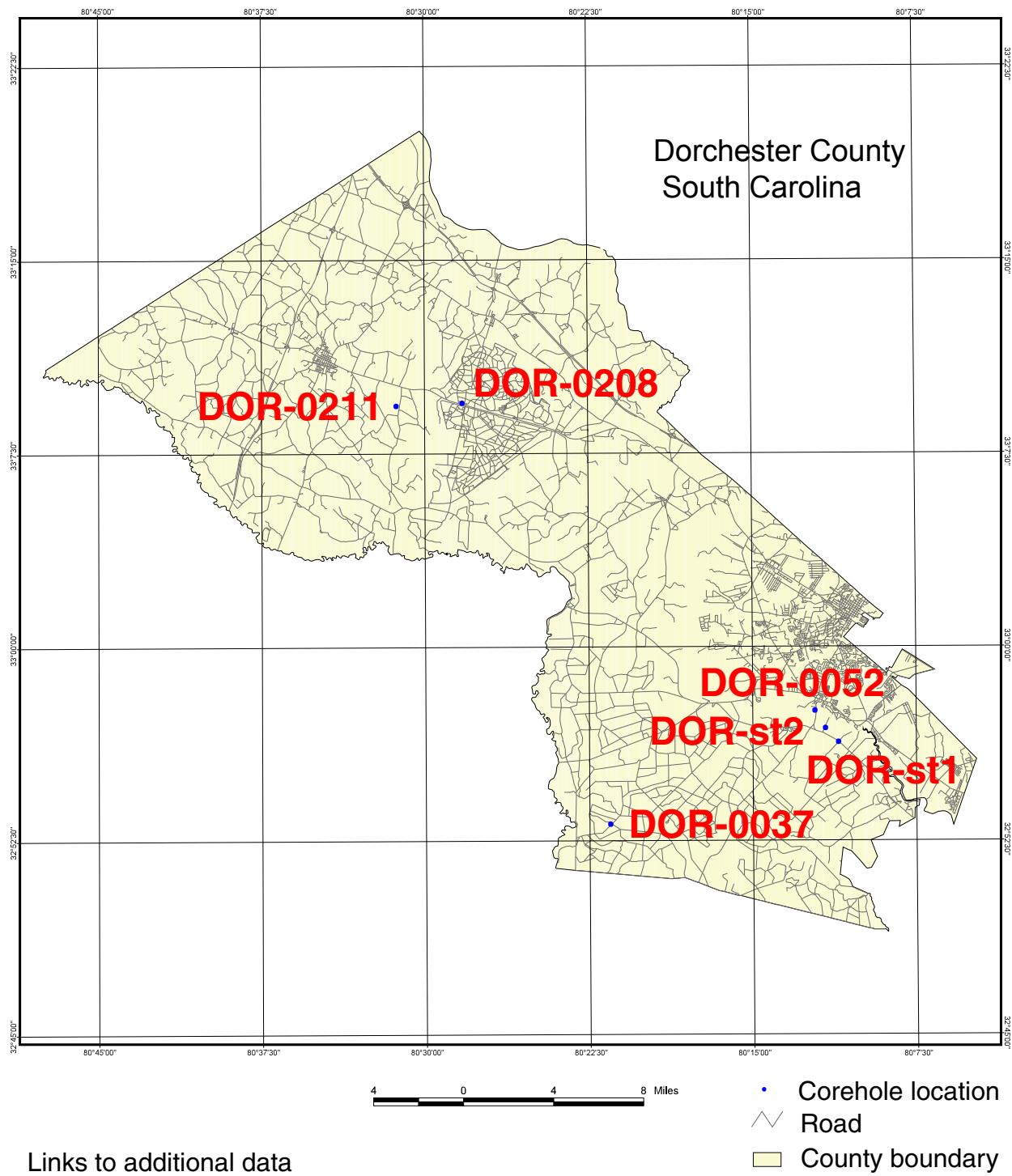


Time scale and correlations used in this report, based on Berggren and others (1995) and Shipboard Scientific Party (1998).

[Link to index map](#)

References Cited

- Berggren, W.A., Kent, D.V., Swisher, C.C., III, and Aubry, M.-P., 1995, A revised Cenozoic geochronology and chronostratigraphy, *in* Berggren, W.A., Kent, D.V., Aubry, M.-P., and Hardenbol, Jan, eds., Geochronology, time scales and global stratigraphic correlation: SEPM Special Publication No. 54, p. 129-212.
- Habib, Daniel, and Miller, J.A., 1989, Dinoflagellate species and organic facies evidence of marine transgression and regression in the Atlantic Coastal Plain: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 74, p. 23-47.
- Martini, Erlend, 1971, Standard Tertiary and Quaternary calcareous nannoplankton zonation: Planktonic Conference, 2d, Rome 1969, Proceedings, p. 739-785.
- Perch-Nielsen, Katharina, 1985, Mesozoic calcareous nannofossils, *in* Bolli, H.M., Saunders, J.B., and Perch-Nielsen, Katharina, eds., Plankton Stratigraphy: Cambridge, Cambridge University Press, p. 329-426.
- Shipboard Scientific Party, 1998, Explanatory notes, *in* Norris, R.D., Kroon, R.D., Klaus, A., and others: Proceedings of the Ocean Drilling Program, Part A: Initial Reports, 171B, p. 11-44.



[Links to additional data](#)

USGS-Clubhouse Crossroads No.1 (DOR-037) [field log](#), [geosummary log](#),
[Cretaceous nannofossils](#), [Tertiary nannofossils](#), dinoflagellates, pollen

Summerville water well (DOR-052), [field log](#), [geosummary log](#)

USGS-Pregnall No. 1 (DOR-208) [field log](#), [geosummary log](#), nannofossils,
dinoflagellates, pollen

USGS-St. George No. 1 (DOR-211) [field log](#), [geosummary log](#),
[Cretaceous nannofossils](#), [Tertiary nannofossils](#)

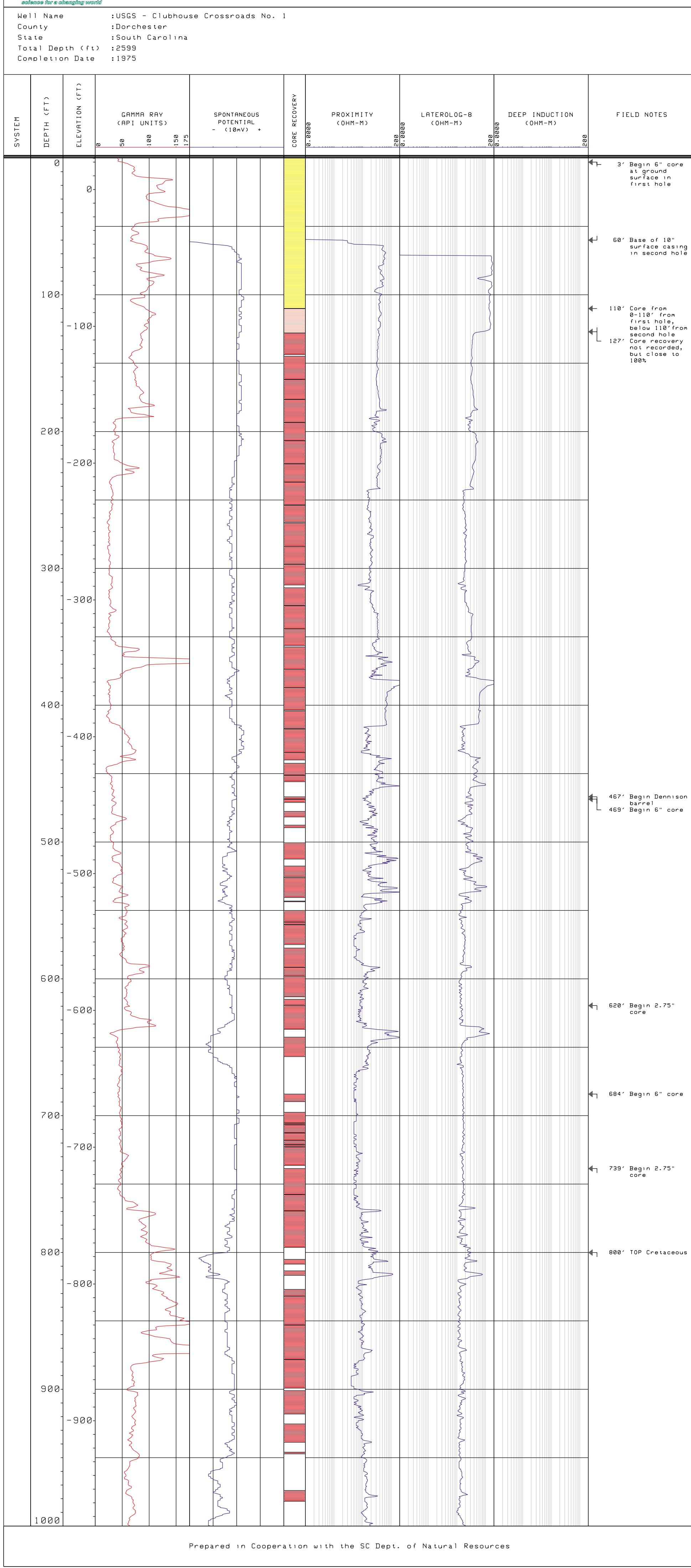
USGS-Stallsville No. 1 (DOR-st1) [field log](#), [geosummary log](#)

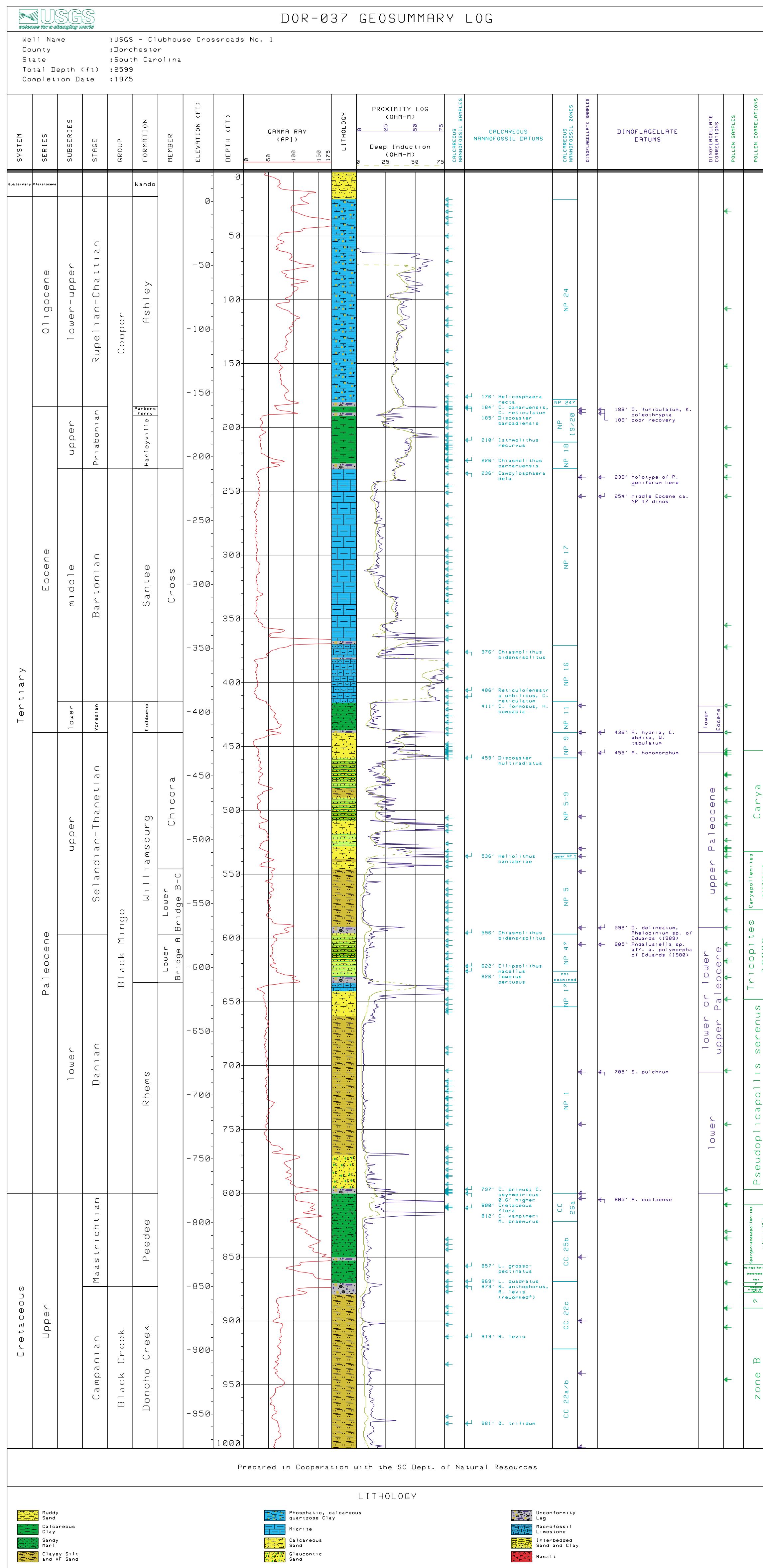
USGS-Stallsville No. 2 (DOR-st2) [field log](#), [geosummary log](#), nannofossils

[Link to correlation chart](#)



DOR-037 FIELD LOG





Clubhouse Crossroads core (DOR-37) -- Cretaceous Calcareous Nannofossils

Upper Cretaceous				Series	Stage	Substage	Formation	Zone (Perch-Nielsen, 1985)	Depth (feet)*
Campanian	Maastrichtian								
Upper	Upper	Peedee		CC26a	805	R F F . F F	Acuturiris scotus		
		Donoho Creek		CC26a	806	R R . R C F	Ahmuellerella regularis		
				CC26a	806.5	. F R F R .	Angulofenestrellithus snyderi		
							Arkhangelskiella cymbiformis		
							Arkhangelskiella specillata		
							Aspidolithus parcus constictus		
							Aspidolithus parcus expansus		
							Aspidorhabdus dietzmannii		
							Axopodorhabdus parcus		
							Biscutum constants		
							Biscutum magnum		
							Biscutum zulloi		
							Biscutum spp.		
							Brarudosphaera bigelowii		
							Bronsonia dentata		
							Ceratolithoides aculeus		
							Calculus obscurus		
							Ceratolithoides kanptneri		
							Chastozygus antiquus		
							Chastozygus amphipons		
							Chastozygus literatus		
							Chastozygus propagulus		
							Corollithion exiguum		
							Corollithion signum		
							Cretarhabdus conicus		
							Cretarhabdus multicavus		
							Cribrosphaera ehrnbergii		
							Cyclogeiosphaera marginellii		
							Cylindraithus duplex		
							Cylindraithus serratus		
							Discorhabdus ignotus		
							Discorhabdus sp.		
							Eiffelithus eximius		
							Eiffelithus gorkae		
							Eiffelithus parallelus		
							Gathetago obliquum		
							Glaukolithus birescenticus		
							Glaukolithus diploogrammus		
							Goniolithus fluckigeri		
							Heliolithus trabeculatus		
							Hexolithus gardiae		
							Kampfnerius magnificus		
							Kampfnerius punctatus		
							Lithraphidites carniolensis		
							Lithraphidites ?charactozoro		
							Lithraphidites grossospectinatus		
							Lithraphidites kennethii		
							Lithraphidites paequadratus		
							Lithraphidites quadratus		
							Lucianorhabdus cayauxii		
							Lucianorhabdus windii		
							Manivitella pemmatoidea		
							Markalitus inversus (elliptical)		
							Microrhhabdulus attenuatus		
							Microrhhabdulus belgicus		
							Microrhhabdulus decoratus		
							Microrhhabdulus undosus		
							Micula decussata		
							Micula praemurus		
							Micula concava		
							Piacozygus sigmoides		
							Piacozygus spiralis		
							Poedorbabodus ?elkefensis		
							Prediscosphaera arkhangelskyi		
							Prediscosphaera cretacea		
							Prediscosphaera grandis		
							Prediscosphaera intercisa		
							Prediscosphaera majungae		
							Prediscosphaera spinosa		
							Prolatipatella multicaninata		
							Quadratum gothicum		
							Quadratum sissinghi		
							Quadratum trididum		
							Reinhardtites anthophorus		
							Reinhardtites levis		
							Repagulum pauidiatum		
							Retacapsa angustiforata		
							Retimediaformis sp.		
							Rhagodiscus angustus		
							Rhagodiscus plebeius		
							Rhagodiscus reniformis		
							Rhagodiscus splendens		
							Rhombolithion rhombicum		
							Rotapilius crenulatus		
							Rotapilius minutus		
							Rucholithus orientis		
							Scapolithus fossilis		
							Solastites barringtonensis		
							Solastites sp.		
							Styliorites asymmetricus		
							Stradneria crenulata		
							Tegumentum stradneri		
							Tetrapodorhabdus decorus		
							Thoracosphaera spp.		
							Tranolithus minimus		
							Tranolithus phaeolus		
							Vekshinella aachenae		
							Vekshinella stradneri		
							Watznaueria barnesae		
							Watznaueria bipora		
							Watznaueria bybelliae		
							Watznaueria supracretacea		
							Zedigrhabdotus pseudanthophorus		
							Zedigrhabdotus sp. A		
							Zedigrhabdotus small sp.		
							Zedigrhabdotus large sp.		
							Zone (Perch-Nielsen, 1985)		
							Abundance		
							Preservation		
							Formation		
							Substage		
							Stage		
							Series		
							Upper Cretaceous		

Overall Abundance: A=abundant or greater than 10 specimens per field of view at X1,250; C=common or 1 to 10 specimens per field of view at X1,250; F=frequent, or 1 specimen per 1 to 10 fields of view at X1,250. Preservation: G=good;

M=moderate. Other symbols: .=not present; ?=possible occurrence. **Species Abundance:** A=abundant or 1 or more

specimens per field of view at X1,250; C=common or 1 specimen per 1 to 10 fields of view at X1,250; F=frequent or 1

specimen per 11 to 100 fields of view at X1,250; R=rare or 1 specimen per greater than 100 fields of view at X1,250.

*Depths recorded at the time of sampling. To convert to log depths, add 5 feet.

Clubhouse Crossroads core (DOR-37) -- Cretaceous Calcareous Nannofossils

[Return to index map](#)

Clubhouse Crossroads core #1 (DOR-37) -- Tertiary Calcareous Nannofossils

Series	Paleocene												Eocene												Series																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Lower				Upper				Middle				Upper				Lower				Upper																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Subseries	Rhems			L. Bridge A			L. Bridge B/C			Chicora			Fishburne			Cross			Harleville			Parkers Ferry			Formation	Subseries	Lower-Upper			Formation	Subseries	Oligocene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Member	Calcareous Nannofossil Zone (Martini, 1971)												Calcareous Nannofossil Zone (Martini, 1971)												Member	depth (feet)			Taxa																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Taxa	depth (feet)	NP 1												NP 1?												NP 47			NP 5			NP 9			NP 11			NP 16			NP 17			NP 18			NP 19/20			NP 19/20?			NP 24			NP 24?			NP 24			NP 27			NP 27			NP 28			NP 28			NP 29			NP 29			NP 30			NP 30			NP 31			NP 31			NP 32			NP 32			NP 33			NP 33			NP 34			NP 34			NP 35			NP 35			NP 36			NP 36			NP 37			NP 37			NP 38			NP 38			NP 39			NP 39			NP 40			NP 40			NP 41			NP 41			NP 42			NP 42			NP 43			NP 43			NP 44			NP 44			NP 45			NP 45			NP 46			NP 46			NP 47			NP 47			NP 48			NP 48			NP 49			NP 49			NP 50			NP 50			NP 51			NP 51			NP 52			NP 52			NP 53			NP 53			NP 54			NP 54			NP 55			NP 55			NP 56			NP 56			NP 57			NP 57			NP 58			NP 58			NP 59			NP 59			NP 60			NP 60			NP 61			NP 61			NP 62			NP 62			NP 63			NP 63			NP 64			NP 64			NP 65			NP 65			NP 66			NP 66			NP 67			NP 67			NP 68			NP 68			NP 69			NP 69			NP 70			NP 70			NP 71			NP 71			NP 72			NP 72			NP 73			NP 73			NP 74			NP 74			NP 75			NP 75			NP 76			NP 76			NP 77			NP 77			NP 78			NP 78			NP 79			NP 79			NP 80			NP 80			NP 81			NP 81			NP 82			NP 82			NP 83			NP 83			NP 84			NP 84			NP 85			NP 85			NP 86			NP 86			NP 87			NP 87			NP 88			NP 88			NP 89			NP 89			NP 90			NP 90			NP 91			NP 91			NP 92			NP 92			NP 93			NP 93			NP 94			NP 94			NP 95			NP 95			NP 96			NP 96			NP 97			NP 97			NP 98			NP 98			NP 99			NP 99			NP 100			NP 100			NP 101			NP 101			NP 102			NP 102	

Clubhouse Crossroads Core (DOR-37) --Dinocysts and Acritarchs

Taxa	Depth (feet)*	Series	Paleocene			Eoc.
		Subseries	Lower	Upper		Lower
		Formation	Rhems	Williamsburg		Fishburne
		Member		A	B-C	Chicora
				DC-11 (450 ft)	DC-12 (500 ft)	DC-13 (525 ft)
<i>Achromosphaera alcicornu</i>				.	X	.
<i>Amphorosphaeridium ? multispinosum</i>				.	.	.
<i>AndalusIELLA</i> sp. aff. <i>A. polymorpha</i> of Edwards (1980)				.	.	.
? <i>AndalusIELLA rhombohedra</i> of Edwards and others (1984)				.	.	.
<i>Apectodinium homomorphum</i>				.	.	X
<i>Ascostomocystis hydria</i>				.	.	.
<i>Cordosphaeridium</i> spp.				.	.	X
<i>Cordosphaeridium fibrospinosum</i>				.	.	.
<i>Cordosphaeridium gracile</i>				.	.	X
<i>Cordosphaeridium inodes</i>				.	.	.
<i>Cribroperidinium giuseppei</i>				.	.	X
<i>Damassadinium californicum</i>				X	.	.
<i>Deflandrea delineata</i>				X	X	X
<i>Eocladiopyxis peniculata</i>				.	.	?
<i>Exochosphaeridium</i> sp.			X	.	.	.
<i>Fibrocysta lappacea</i>			.	X	.	X
<i>Operculodinium centrocarpum</i>			.	.	X	.
<i>Palaeocystodinium golzowense</i>			.	X	X	.
<i>Palaeocystodinium</i> sp. (fat)			X X	.	.	.
<i>Palaeoperidinium pyrophorum</i>			.	X	.	.
<i>Phelodinium magnificum</i>			.	X	.	.
<i>Phelodinium</i> sp.			X	.	.	.
<i>Phelodinium</i> sp. of Edwards (1989)			.	X	.	X
<i>SenegaliniUM</i> ? <i>dilwynense</i>			.	.	.	X
<i>Spinidinium</i> spp.			X X	.	X	.
<i>Spinidinium pulchrum</i>			X X	.	.	.
<i>Spiniferites</i> sp.			.	X	.	X X
<i>Turbiosphaera</i> sp. aff. <i>T. magnifica</i> of Edwards (1989)		
<i>Wilsonidium tabulatum</i>			.	.	.	X X
miscellaneous areoligeracean forms			.	X	.	.
small peridiniacean forms			X X	X	.	X

A=Lower Bridge A; B-C=Lower Bridge B-C; X=present; .=not present; ?=questionable

*Depths recorded at the time of sampling. To convert to log depths, add 5 ft.

Clubhouse Crossroads Core (DOR-37) --Dinocysts and Acritarchs

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Clubhouse Crossroads No. 1 (DOR-37) -- Tertiary Sporomorphs

Series	Paleocene										Eocene			Oligocene	Series
Subseries	Lower	Upper					Fishburne	Middle	Upper	Ashley	Upper	Subseries			
Formation	Rhems	Williamsburg					Harleyville	Santee	Cross		Formation				
Member		DC-10	DC-11	DC-12	DC-13	DC-14	DC-15	DC-16	DC-17	DC-18	DC-19	DC-20	DC-21	DC-22	
Sample		RJ133D	413	413	413	413	RJ133D	413	413	413	413	413	413	413	413
Taxa	Depth (feet)*														
<i>Aesculiidites circumstriatus</i>															
<i>Boehlensipollis hohlii</i>															
<i>Bombacacidites nacimientoensis</i>															
<i>Bombacacides reticulatus</i>															
<i>Carya <29µm</i>		X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Carya >28µm</i>															
<i>Caryapollenites prodromus</i> group															
<i>Choanopollenites alabamicus</i>		X	X	.	X	X	.	.	.	.	.	.	.	.	.
<i>Choanopollenites</i> sp. cf. <i>C. consanguineus</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Choanopollenites conspicuus</i>		X	.	X	.	X	.	X	.	X	.	X	.	X	.
<i>Choanopollenites patricius</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Cyrillaceaepollenites megaexactus</i>		.	.	.	.	.	.	.	.	.	.	X	X	X	X
<i>Ephedra claricristata</i>		.	.	.	.	.	.	.	.	.	.	X	.	X	.
<i>Faguspollenites</i> sp.		.	.	.	X	.	.	.	.	.	.	.	.	.	.
<i>Favitricolporites baculoferus</i>		X	X	.	X	X	.	X	X	X	X	X	X	.	.
<i>Graminidites</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.	X	X
<i>Holkopollenites chemardensis</i>		X	.	X	.	X	X	X	X	X	X	.	.	.	.
<i>Interpollis paleocenicus</i>		X	.	.	.	X	.	.	.	.	.	.	.	.	.
<i>Intratriporopollenites pseudoinstructus</i>		.	X	X	X	.	X	X	X	.	X	X	X	.	.
<i>Jarzenipollis trinus</i>		.	.	.	.	.	.	.	.	.	X	X	.	.	.
<i>Juglanspollenites infrabaculatus</i>		.	.	.	.	.	.	.	.	.	.	.	X	.	X
<i>Labrapollis globosus</i>		.	.	.	X	.	.	.	.	.	.	.	.	.	.
<i>Lanagiopollis cribellatus</i>		.	.	.	X	.	.	.	.	.	.	.	.	.	.
<i>Lanagiopollis lihokus</i>		.	.	.	.	X	.	X	.	X	.	.	.	.	.
<i>Liliacidites tritus</i>		.	.	.	.	.	.	.	.	.	.	X	.	X	.
<i>Matanomadhiashasulcites maximus</i>		.	.	.	.	.	.	.	.	.	X	.	.	.	.
<i>Miltordia incerta</i>		.	X	.	.	.	X	.	.	.	X	.	.	.	.
<i>Miltordia minima</i>		.	X	.	.	.	X	.	.	X	X	.	.	.	.
<i>Momipites actinus</i>		.	.	.	.	.	X	.	X	X	.	.	.	.	.
<i>Momipites annulatus</i>		.	.	.	.	.	.	.	.	.	.	X	X	X	.
<i>Momipites coryloides</i>		X	X	X	.	X	X	.	X	X	.	X	X	.	.
<i>Momipites dilatus</i>		X	X	X	.	X	.	X	X	.	.	.	.	.	.
<i>Momipites flexus</i>		.	X	X	.	.	.	X	X	.	.	.	.	.	.
<i>Momipites microfoveolatus</i>		X	X	X	.	X	.	X	.	X	X	X	X	X	.
<i>Momipites strictus</i>		X	.	X	.	X	.	X	X	X	X	X	.	.	.
<i>Momipites tenuipolus</i> group		X	X	X	X	X	X	X	X	X	.	.	.	.	.
<i>Nudopolis endangulatus</i>		.	.	.	.	.	.	.	X	X	.	.	.	.	.
<i>Nudopolis terminalis</i>		.	X	.	.	X	X	X	X	X	X	X	.	.	.
<i>Nudopolis thiergartii</i>		.	.	.	.	X	.	.	X	X	.	.	.	.	.
<i>Nuxpollenites claibornensis</i>		.	.	.	.	.	.	.	.	.	X	X	X	.	.
<i>Nuxpollenites crockettensis</i>		.	.	.	.	.	.	.	.	.	X	X	X	.	.
<i>Nuxpollenites</i> , other species		.	.	.	.	.	.	.	.	.	X	X	X	.	.
<i>Nyssapollenites paleocenicus</i>		X	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Osculapolllis?</i> <i>coloratus</i>		.	X	X	X	.	X	X	X	X	.	.	.	.	X
<i>Parsonsidites conspicuus</i>		.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Platycarya platycaryoides</i>		.	.	.	.	.	.	.	.	.	X	X	.	.	.
<i>Platycaryapollenites swasticoides</i>		.	.	.	.	.	.	.	.	.	X	X	.	.	.
<i>Platycarya</i> sp. A		.	.	.	.	.	.	.	X	X	.	.	.	.	.
<i>Platycarya</i> sp. cf. <i>P. sp. A</i>		.	.	.	.	.	.	.	X	X	.	.	.	.	.
<i>Plicatopollis triorbicularis</i> type		X	X	.	.	X	.	.	X	X	.	X	.	.	.
<i>Plicatopollis triradiatus</i>		X	.	X	.	X	X	.	X	X	.	X	X	.	.
<i>Porocolpopollenites olliviera</i>		.	.	.	.	X	X	.	X	X	.	X	.	.	.
<i>Pseudolaesopollenites ventosus</i>		.	.	.	.	.	.	.	.	.	X	X	X	X	.
<i>Pseudoplicapollis limitatus</i>		.	X	X	X	.	X	X	X	X	.	.	.	.	.
<i>Pseudoplicapollis serenus</i>		X	X	X	.	.	.	.	.	.	.	.	.	.	.
<i>Retitrescolpites anguloluminosus</i>		X	.	.	X	.	.	.	.	.	.	.	.	.	.
<i>Sparganiaceaepollenites</i> sp.		.	.	.	.	.	.	X	X	X	X	.	.	.	.
<i>Spinaepollis spinosus</i>		.	.	.	X	.	X	X	.	X	.	.	.	.	.
<i>Subtriporopollenites anulatus</i>		.	X	.	.	X	.	.	X	.	.	.	.	.	.
<i>Subtriporopollenites nanus</i>		.	.	.	.	.	.	X	.	.	X	X	.	.	.
<i>Tetracolporopollenites lesquereuxianus</i>		.	.	.	.	.	.	.	.	.	X	X	X	.	.
<i>Tetracolporopollenites longipollinius</i>		.	.	.	.	.	.	.	.	.	X	X	X	X	.
<i>Tetracolporopollenites megadolium</i>		.	.	.	.	.	.	.	.	.	X	X	X	X	.
<i>Thomsonipollis magnificus</i>		.	.	.	X	X	.	X	X	X	.	X	.	.	.
<i>Triatriopollenites subtriangulus</i>		.	.	.	.	X	.	.	X	.	.	.	.	.	.
<i>Triatriopollenites triangulus</i>		.	.	.	.	.	X	.	.	.	.	.	.	.	.
<i>Tricolpites asper</i>		.	X	X	X	.	X	X	X	X	.	X	.	.	.
<i>Tricolpites crassus</i>		.	.	.	X	.	.	X	X	.	X	.	.	.	.
<i>Triporopollenites microgranulatus</i>		X	.	.	X	.	.	X	X	.	X	.	.	.	.
<i>Trudopollis</i> spp., including <i>T. plenus</i>		.	X	.	X	X	X	X	X	X	.	X	.	.	.
<i>Ulmipollenites kempii</i>		X	.	.	.	.	X	.	.	X	.	.	.	.	.
<i>Ulmipollenites tricostatus</i>		.	.	.	.	.	X	.	X	.	.	.	.	.	.
<i>Ulmipollenites undulosus</i>		.	.	.	.	.	.	.	.	X	X	.	.	.	.
Depth (feet)*															
Sample															
Subseries	Lower	L. Bridge A	Lower Bridge B-C												
Member	Rhems														
Formation	Rhems														

X=present; .=not present; ?=possible occurrence; c=specimens from downhole contamination

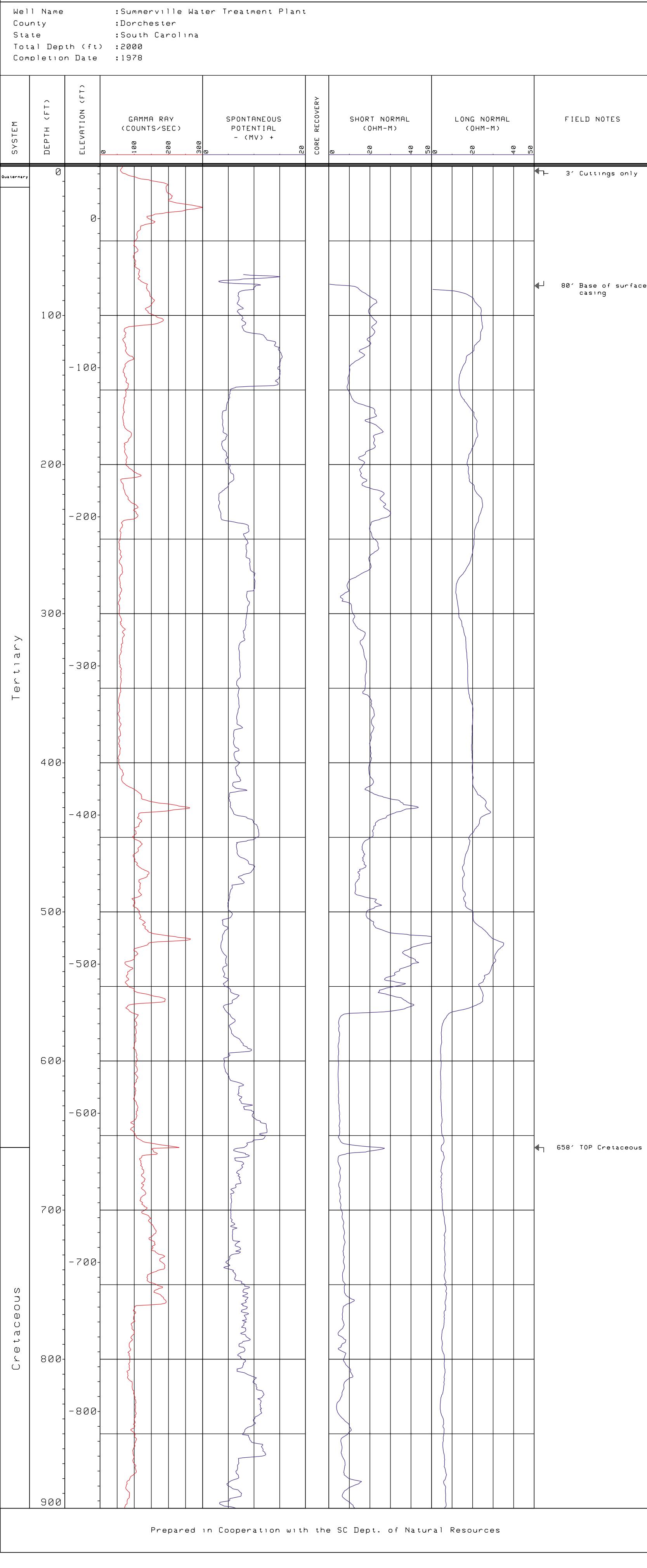
*Depths recorded at the time of sampling. To convert to log depths, add 5 feet.

Clubhouse Crossroads No. 1 (DOR-37) -- Tertiary Sporomorphs

[Return to index map](#)



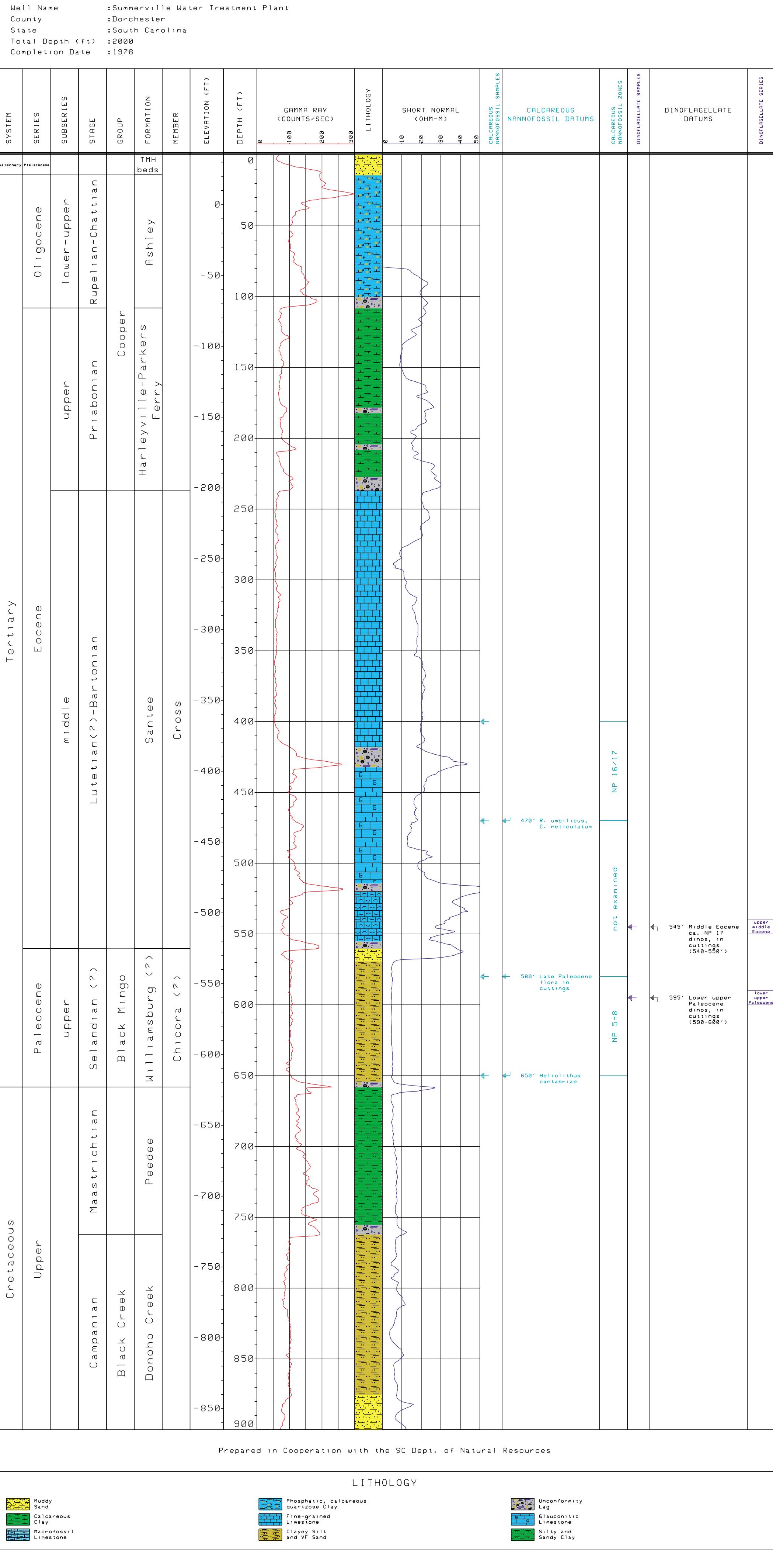
DOR-052 FIELD LOG



Prepared in Cooperation with the SC Dept. of Natural Resources

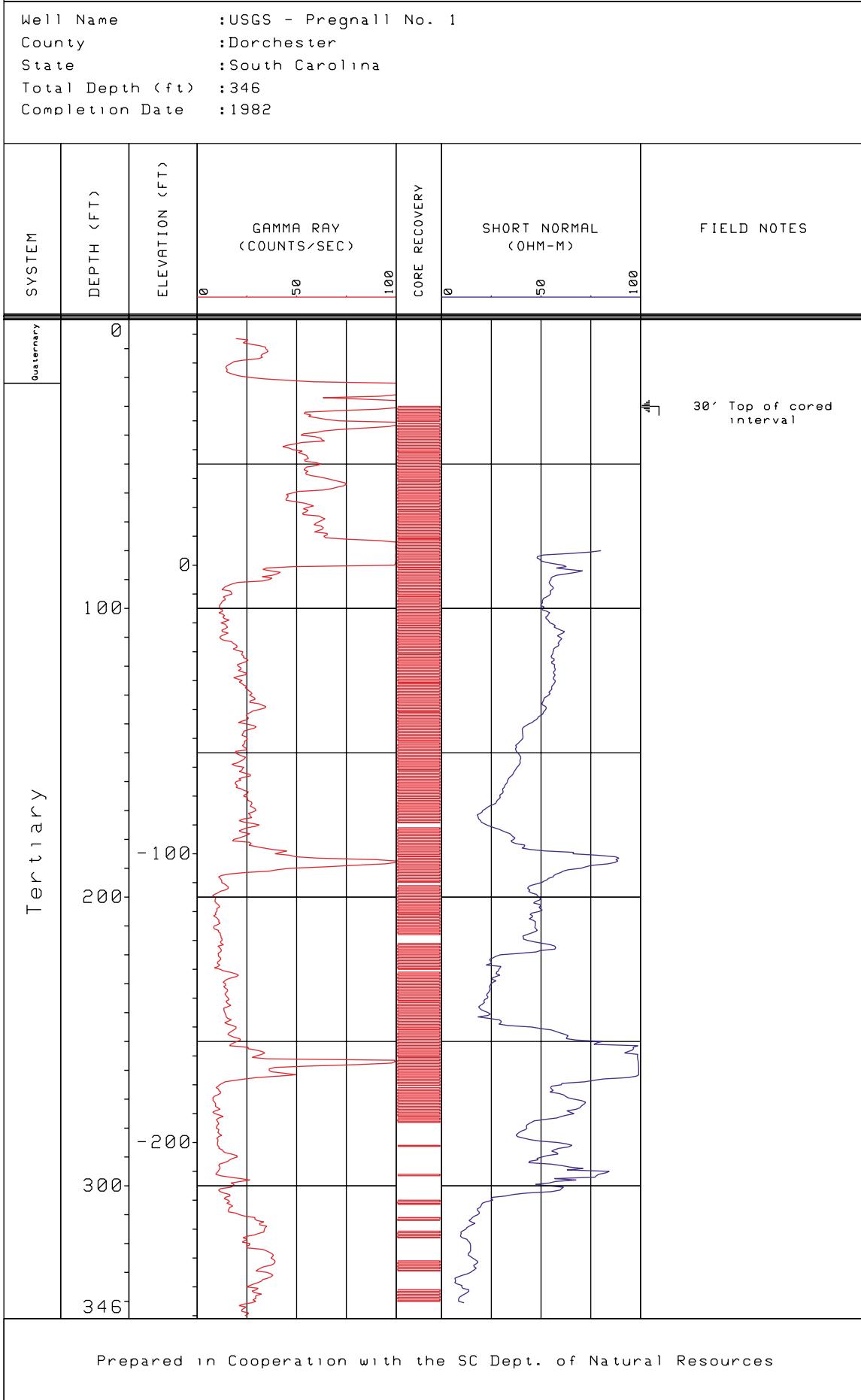


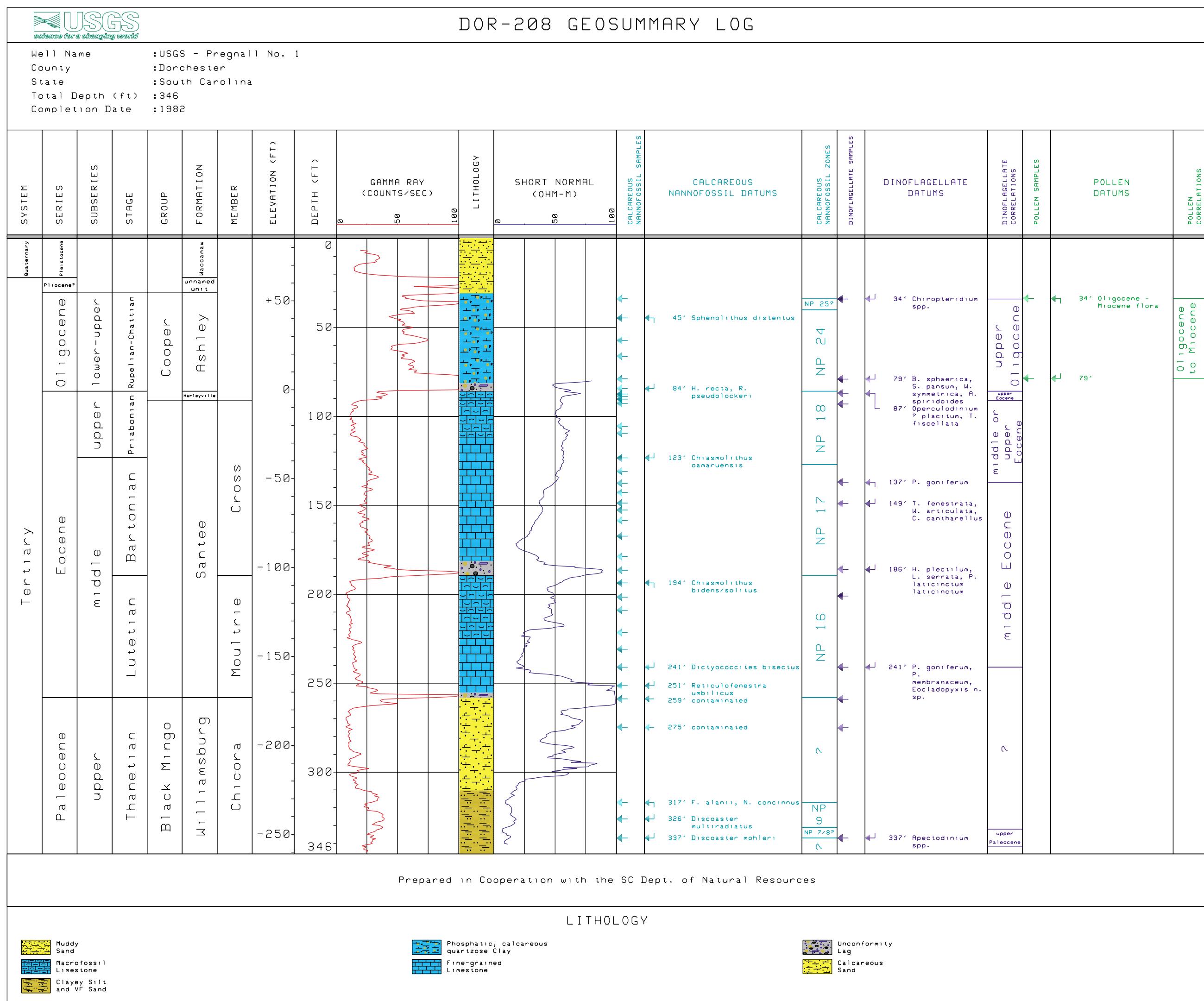
DOR-052 GEOSUMMARY LOG





DOR-208 FIELD LOG





Pregnall core (DOR-208) .. Tertiary Calcareous Nannofossils

Pregnall core (DOR-208) -- Tertiary Calcareous Nannofossils
[Return to index map](#)

Pregnall Core (DOR-208) -- Dinocysts and Acritarchs

Series	Paleocene			Eocene			Oligocene	
	Subseries		Upper	Middle		Upper	Upper	
	Formation		Williamsburg	Santee		H	Ashley	
	Member	Chicora	Moultrie	Cross		93	87	79
Taxa	Depth (feet)	#	#	#	#	#	#	#
<i>Achilleodinium biformoides</i>	.	.	.	.	X	X	.	X
<i>Adnatosphaeridium williamsii</i>	X	.	.	.	.	.	.	.
<i>Adnatosphaeridium</i> sp.	.	.	.	.	.	.	X	X
<i>Amphorosphaeridium</i> ? <i>multispinosum</i>	.	.	X	.	.	.	.	.
<i>Apectodinium homomorphum</i>	X	.	.	.	.	.	.	.
<i>Apectodinium quinquelatum</i>	X	.	.	.	.	.	.	.
<i>Apteodinium australiense</i>	.	c	.	.	.	.	.	X
<i>Apteodinium spiridooides</i>	.	.	.	.	.	.	.	X
<i>Areoligera-Glaphyrocysta</i> complex	.	.	.	X	X	X	.	.
<i>Areosphaeridium diktyoplokum</i>	.	.	.	X	.	.	.	.
<i>Batiacaspshaera hirsuta</i>	.	.	.	.	.	.	.	X
<i>Batiacaspshaera sphaerica</i>	.	c	.	.	.	.	.	X X
<i>Carpatella cornuta</i>	.	.	rw	.	.	.	.	.
<i>Charlesdowniea coleothrypta</i>	.	.	X	.	X	X	X	.
<i>Charlesdowniea stellata</i>	.	.	.	.	.	.	X	.
<i>Chiropteridium lobospinosum</i>	.	c	.	.	.	.	.	X
<i>Chiropteridium</i> spp.	.	.	.	.	.	.	.	X
<i>Cordosphaeridium cantharellus</i>	.	.	.	.	X	X	X	.
<i>Cordosphaeridium gracile</i>	X	.	.	.	X	X	X	.
<i>Cordosphaeridium minimum</i>	.	.	.	.	X	.	.	.
<i>Corrudinium incompositum</i>	.	.	.	.	X	.	X	.
<i>Cribroperidinium giuseppei</i>	.	.	X	.	X	X	.	.
<i>Cyclopsiella</i> ? <i>chateauneufii</i>	.	.	.	.	.	.	.	X
<i>Cyclopsiella vieta</i>	.	.	X	.	X	X	X	X
<i>Dapsilidinium pseudocollicherum</i>	.	.	.	X	.	X	.	X X
<i>Deflandrea heterophlycta</i>	.	.	.	.	cf	X	.	X
<i>Deflandrea phosphoritica</i>	.	.	.	X	.	.	X	X
<i>Dinopterygium cladoides</i> sensu Morgenroth (1966)	c	.	X	.	X	X	.	X X
<i>Diphyes colligerum</i>	X	.	X	.	.	X	.	.
<i>Distatodinium ellipticum</i>	.	.	.	X	X	.	.	.
<i>Distatodinium paradoxum</i>	.	.	.	.	.	.	.	X
<i>Enneadocysta arcuata</i>	.	.	X	.	X	X	.	.
<i>Eocladiopyxis</i> n. sp.	.	.	X	.	.	.	rw	?
<i>Eocladiopyxis peniculata</i>	X	X	.	.	.	X	.	.
<i>Glaphyrocysta intricata</i>	.	.	X	.	.	.	.	.
<i>Heteraulacacysta porosa</i>	.	.	X	.	.	.	X	.
<i>Heteraulacacysta</i> ? <i>leptalea</i>	.	.	.	.	.	X	.	.
<i>Heteraulacacysta</i> spp.	?	.	.	X	.	.	.	.
<i>Histiocysta</i> sp. of Stover and Hardenbol (1993)	.	.	X	.	X	.	.	.
<i>Homotryblium plectilum</i>	c	.	X	.	X	X	X	X X
<i>Hystrichokolpoma cinctum</i>	.	.	.	.	.	X	.	.
<i>Hystrichokolpoma rigaudiae</i>	c	.	X	.	X	X	X	.
<i>Hystrichokolpoma unispinum</i>	X	.	.	.	.	.	.	.
<i>Hystrichosphaeropsis</i> sp.	.	.	.	.	.	X	.	.
<i>Hystrichostrogylon coninckii</i> ?	.	.	.	.	X	?	.	.
<i>Hystrichostrogylon membraniphorum</i>	.	.	?	.	.	.	.	.
<i>Impagidinium</i> sp.	.	.	.	X	.	.	.	.
<i>Kallosphaeridium brevibarbatum</i>	X	.	.	.	.	.	.	.
<i>Lejeuneacysta</i> sp.	c	.	.	.	X	.	.	X
<i>Lentinia serrata</i>	.	.	.	X	X	X	.	X
<i>Lingulodinium machaerophorum</i>	c	.	X	.	X	X	X	X X
<i>Melitasphaeridium pseudorecurvatum</i>	.	.	X	.	.	.	.	.
<i>Membranophoridium aspinatum</i>	.	.	.	.	.	.	X	.
<i>Membranosphaera maastrichta</i>	X	.	.	.	.	.	.	.
<i>Millioudinium</i> sp. I of Edwards (1984)	.	.	.	X	.	X	.	.
<i>Nematosphaeropsis</i> sp.	.	.	.	.	X	.	.	.
<i>Operculodinium centrocarpum</i> sensu amplio	X	c	.	.	X	X	X	X X
<i>Operculodinium</i> ? <i>placitum</i>	.	.	.	.	.	X	.	.
<i>Palaeocystodinium golzowense</i>	.	.	.	X	X	X	.	X
<i>Pentadinium goniferum</i>	.	.	X	.	X	X	X	.
<i>Pentadinium laticinctum</i> subsp. <i>laticinctum</i>	.	.	.	X	X	X	X	.
<i>Pentadinium laticinctum</i> (grano-vermiculate forms)	c	.	.	.	.	X	X	X X
<i>Pentadinium membranaceum</i>	.	.	X	.	X	.	.	.
<i>Phthanoperidinium comatum</i>	.	.	.	X	X	X	X	.
<i>Phthanoperidinium stockmansii</i>	.	.	.	.	X	.	X	.
<i>Phthanoperidinium</i> sp.	.	.	X	.	.	.	.	.
<i>Polysphaeridium zoharyi</i>	X	.	.	.	.	.	.	X
<i>Samlandia chlamydophora</i> sensu stricto	.	.	.	.	.	.	X	.
<i>Samlandia chlamydophora</i> of Stover and Hardenbol (1993)	.	.	.	X	X	.	X	.
<i>Samlandia</i> sp.	.	.	.	.	X	.	.	X
<i>Saturnodinium pansum</i>	.	.	.	.	.	.	X	X
<i>Senegaliniun</i> ? <i>dilwynense</i>	X	.	.	.	.	.	.	.
<i>Spiniferites pseudofurcatus</i>	.	.	X	.	X	.	.	X
<i>Spiniferites</i> spp.	X	?	X	.	X	X	X	X X
<i>Systematophora placacantha</i>	X	.	X	.	X	X	X	X
<i>Tectatodinium pellitum</i>	.	X	.	X	X	X	X	X
<i>Thalassiphora fenestrata</i>	.	X	.	X	X	X	X	X
<i>Thalassiphora pelagica</i>	.	X	.	X	.	.	.	.
<i>Trigonopyxidia fiscellata</i>	.	X	.	X	.	.	.	.
<i>Turbiosphaera</i> sp. aff. <i>T. magnifica</i> of Edwards (1989)	X	.	.	.	.	.	X	.
<i>Wetzelia</i> sp. aff. <i>W. articulata</i> sensu amplio	c	.	.	.	X	X	X	.
<i>Wetzelia simplex</i>	.	.	.	X	.	.	.	.
<i>Wetzelia</i> sp. symmetrica	.	.	.	.	.	.	X	X
Depth (feet)	#	#	#	#	#	#	#	#
Member	Chicora	Moultrie			Cross			
Formation	Williamsburg			Santee		H		Ashley
Subseries	Upper			Middle		Upper		Upper
Series	Paleocene			Eocene		Oligocene		

H= Harleyville Formation; X=present; .=not present; rw=reworked; c=contaminated; ?=questionable, cf=compares with.

Pregnall Core (DOR-208) -- Dinocysts and Acritarchs

[Return to index map](#)

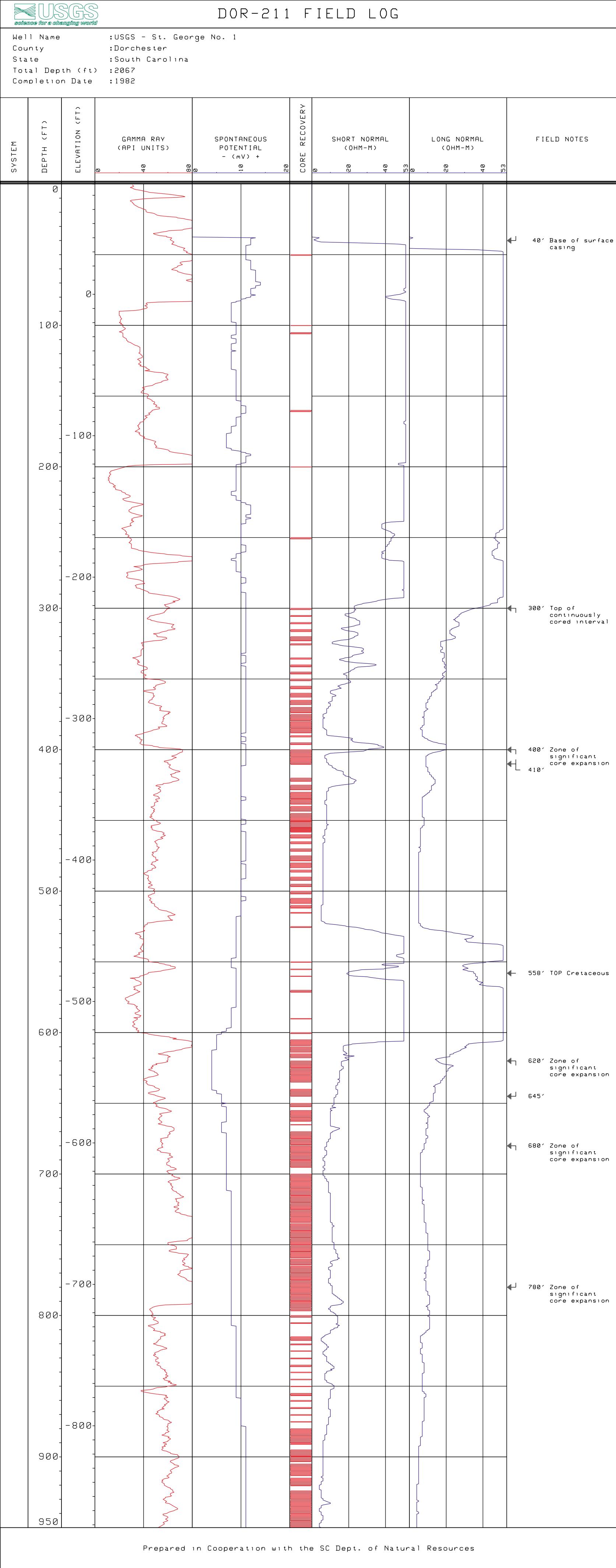
Pregnall Core (DOR-208) -- Sporomorphs

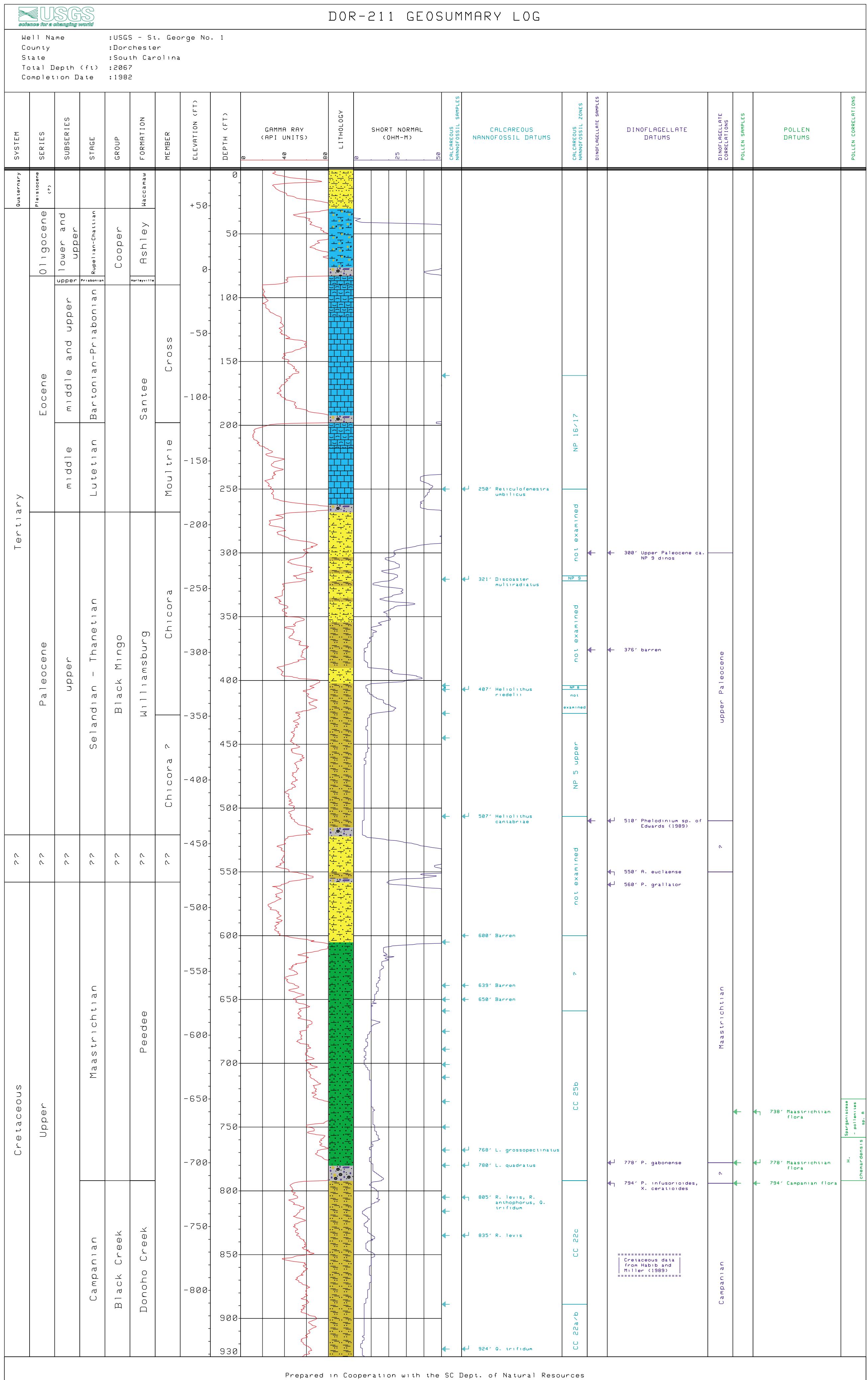
Series	Oligocene
Subseries	Upper Oligocene
Formation	Ashley
Depth (feet)	78 4.78 8
<i>Betula</i> (birch)	.
<i>Carya</i> (hickory)	X
<i>Eleagnaceae</i> (silverberry)	X
<i>Liquidambar</i> (sweet-gum)	X
<i>Momipites spackmanianus</i> group	X
<i>Pinus</i> (pine) <i>haploxyylon</i> type	X
<i>Quercus</i> (oak)	X
<i>Tetracolporopollenites megadolium</i>	.
<i>Tilia</i> (basswood)	X
<i>Ulmus</i> (elm)	X
Several species of fern spores	X

X=present; .=not present

Pregnall Core (DOR-208) -- Sporomorphs

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St. George core (DOR-211) -- Cretaceous Calcareous Nannofossils

Upper Cretaceous		Series		Zone (Perch-Nielsen, 1985)	Depth (feet)	Stage	Substage	Formation
Campanian	Maastrichtian	Upper	Lower					
Donoho Creek	Peedee	Upper	Lower	CC25b	659	Ahmuellerella octoradiata	Series	
				CC25b	675	Ahmuellerella regularis		
				CC25b	689	Angulofenestrellithus snyderi		
				CC25b	701	Arkhangelskiella cymbiformis		
				CC25b	711	Arkhangelskiella specillata		
				CC25b	730	Aspidolithus parcus constrictus		
				CC25b	750	Aspidolithus parcus expansus		
				CC25b	768	Aspidolithus parcus parcus		
				CC25b	780	Biscutum constans		
						Biscutum zulloi		
						Biscutum spp.		
						Braarudosphaera bigelovii		
						Brioinsonia dentata		
						Calcultites obscurus		
						Calcultites ovalis		
						Calcultites spp.		
						Ceratolithoides aculeus		
						Chiastozygus amphipons		
						Chiastozygus antiquus		
						Chiastozygus litterarius		
						Chiastozygus trabalis		
						Corollithion exiguum		
						Corollithion? madagaskarensis		
						Corollithion signum		
						Cretahabdu schizobrachiatus		
						Cribrocorona gallica		
						Cribrosphearella ehrenbergii		
						Cylindralithus serratus		
						Cylindralithus stradneri		
						Cylindralithus sp.		
						Discorhabdus ignotus		
						Eiffellithus eximius		
						Eiffellithus gorkae		
						Eiffellithus parallelus		
						Eiffellithus turriseiffelii		
						Gartnerago obliquum		
						Glaukolithus bicrescentius		
						Glaukolithus gardetae		
						Gonioithus fluckigeri		
						Hexalithus grillii		
						Lithaphidites carniolensis		
						Lithaphidites praequadratus		
						Lithaphidites quadratus		
						Lucianorhabdus cayeuxii		
						Manivitella pammatoidea		
						Markalius inversus		
						Micrantholithus sp. (5 rays)		
						Microrhhabdulus attenuatus		
						Microrhhabdulus belgicus		
						Microrhhabdulus decoratus		
						Microrhhabdulus undosus		
						Micula concava		
						Micula decessata		
						Orastrum asarotum		
						Ottaviannus terrazetus		
						Placozygus sigmooides		
						Placozygus spiralis		
						Prediscosphaera cretacea		
						Prediscosphaera grandis		
						Prediscosphaera intercisa		
						Prediscosphaera spinosa		
						Prediscosphaera stoveri		
						Prolatipelta multicarinata		
						Quadratum gothicum		
						Quadratum sissinghii		
						Quadratum trifidum		
						Reinhardtites antophoroides		
						Reinhardtites levii		
						Retemedialithus spp.		
						Rhagodiscus angustus		
						Rhagodiscus reniformis		
						Rhagodiscus splendens		
						Rotelapillus crenulatus		
						Scapholithus fossilis		
						Solfasites barringtonensis		
						Stradneria crenulata		
						Tegumentum stradneri		
						Tetrapodohabdus decorus		
						Thoracosphaera spp.		
						Tranolithus macleodiae		
						Tranolithus minimus		
						Tranolithus phacelodus		
						Vekshinella aachena		
						Vekshinella stradneri		
						Watznaueria bainesae		
						Watznaueria bipora		
						Watznaueria bybelliae		
						Watznaueria supracretacea		
						Zeugrhabdotus pseudanthophorus		
						Zeugrhabdotus small spp.		
						Zeugrhabdotus large spp.		
						Zone (Perch-Nielsen, 1985)		
						Abundance		
						Depth (ft)		
						Preservation		
Donoho Creek	Peedee	Upper	Lower	Campanian	924	Campanian	Maastrichtian	Upper Cretaceous

X=present, .=not present, rw=reworked. Abundance: A=abundant or greater than 10 specimens per field of view at X1,250; C=common or 1 to 10 specimens per field of view at X1,250; F=frequent or 1 specimen per 1 to 10 fields of view at X1,250. Preservation: VG=very good; G=good;

St. George core (DOR-211) -- Cretaceous Calcareous Nannofossils

[Return to index map](#)

St. George core (DOR-211) -- Tertiary Calcareous Nannofossils

	Series	Paleocene			Eocene	
	Subseries	Upper			Middle	
	Formation	Williamsburg			Santee	
	Member	Chicora?	Chicora		M.	C.
Calcareous Nannofossil Zone (Martini, 1971)		NP 5 upper	NP 5 upper	NP 8	NP 9	NP 16/17
axa	Depth (feet)	506.5	425.8	407	404	320.7
<i>Braarudosphaera bigelowii</i>		X	.	.	.	.
<i>Cepekiella lumina</i>		.	.	X	X	X
<i>Chiasmolithus bidens/solitus</i>		.	.	X	X	.
<i>Chiasmolithus titus</i>		.	.	.	.	X
<i>Coccolithus cribellum</i>		X	X	.	.	.
<i>Coccolithus eopelagicus</i>		.	.	.	.	X
<i>Coccolithus pelagicus</i>		.	X	X	X	X
<i>Coronocyclus nitescens</i>		.	.	.	.	?
<i>Cribrocentrum reticulatum</i>		.	.	c	.	.
<i>Cruciplacolithus asymmetricus</i>		X	.	.	.	.
<i>Cruciplacolithus tenuis</i>		X	.	X	X	.
<i>Cruciplacolithus spp.</i>		.	X	X	.	.
<i>Cyclagelosphaera prima</i>		.	.	?1	.	.
<i>Cyclagelosphaera reinhardtii</i>		X	.	X	.	.
<i>Cyclagelosphaera spp.</i>		.	X	.	.	.
<i>Cyclococcolithus formosus</i>		.	.	.	.	X
<i>Cyclococcolithus protoannulus</i>		.	.	.	.	X
<i>Dictyococcites bisectus</i>		.	.	.	.	X
<i>Dictyococcites scrippsae</i>		.	.	.	.	X
<i>Discoaster barbadiensis</i>		.	.	.	.	X
<i>Discoaster falcatus</i>		.	.	.	.	?
<i>Discoaster lenticularis</i>		.	.	.	1	.
<i>Discoaster multiradiatus</i>		.	.	.	X	.
<i>Discoaster saipanensis</i>		.	.	.	.	X
<i>Discoaster salisburgensis</i>		.	.	.	X	.
<i>Discoaster spp.</i>		.	.	.	.	X
<i>Ellipsolithus bollii</i>		X	.	X	.	.
<i>Ericsonia subpertusa</i>		X	X	X	X	.
<i>Fasciculithus aubertae</i>		.	.	.	?	.
<i>Fasciculithus involutus</i>		.	.	.	X	.
<i>Helicosphaera bramlettei</i>		.	.	.	.	X
<i>Helicosphaera lophota</i>		.	.	.	.	?
<i>Helicosphaera spp.</i>		.	.	.	.	X
<i>Heliolithus cantabriae</i>		2	1	.	.	.
<i>Heliolithus riedellii</i>		.	.	2	1	.
<i>Markalius inversus</i>		.	.	X	.	X
<i>Neochiastozygus concinnus</i>		X	.	.	.	.
<i>Neococcolithes</i> sp. aff. <i>N. protensus</i>		.	X	.	X	.
<i>Neococcolithes</i> spp.		X	.	.	X	X
<i>Neocrepidolithus</i> spp.		.	.	.	X	.
<i>Pemma</i> spp.		.	.	.	.	X
<i>Placozygus sigmoides</i>		X	X	X	X	.
<i>Pontosphaera</i> spp.		.	.	.	.	X
<i>Pseudotriquetrorhabdulus inversus</i>		.	.	.	.	?
<i>Reticulofenestra daviesii</i>		.	.	.	.	X
<i>Reticulofenestra floridana</i>		.	.	.	.	X
<i>Reticulofenestra umbilicus</i>		.	.	.	.	X
<i>Reticulofenestra</i> spp.		.	.	1c	c	.
<i>Rhabdosphaera</i> spp.		.	.	.	.	X
<i>Sphenolithus moriformis</i>		.	.	.	.	X
<i>Sphenolithus pseudoradians</i>		.	.	.	.	?
<i>Thoracosphaera</i> spp.		X	.	X	X	.
<i>Toweius callosus</i>		.	.	.	X	.
<i>Toweius eminens eminens</i>		.	.	.	X	.
<i>Toweius eminens tovae</i>		.	.	.	X	.
<i>Toweius pertusus</i>		X	X	X	X	.
<i>Toweius serotinus</i>		.	.	.	X	.
<i>Zygodiscus herlynii</i>		.	.	.	X	.
<i>Zygrahlithus bijugatus</i>		.	.	.	.	X
Cretaceous forms		.	X	.	.	.
Abundance	C-	C-	C-	C	C-	A
Preservation	M	M	M	M	M	G
Depth (feet)	506.5	425.8	407	404	320.7	250
Calcareous Nannofossil Zone (Martini, 1971)		NP 5 upper	NP 5 upper	NP 8	NP 8	NP 9
Member	Chicora?	Chicora		M.	C.	
Formation	Williamsburg			Santee		
Subseries	Upper			Middle		
Series	Paleocene			Eocene		

M.= Moultrie, C.=Cross; X=present; .=not present; ?= possible occurrence;
c=specimens from downhole contamination; 1=only one specimen observed;
2=only two specimens observed. For abundance: A=abundant or greater
than 10 specimens per field of view; C=common or 1 to 10 specimens per
field of view; F=frequent or 1 specimen per 1 to 10 fields of view; R=rare or 1
specimen per greater than 10 fields of view. All fields of view at 640x
magnification. For preservation: G=good; M=moderate; P=poor; T=terrible.

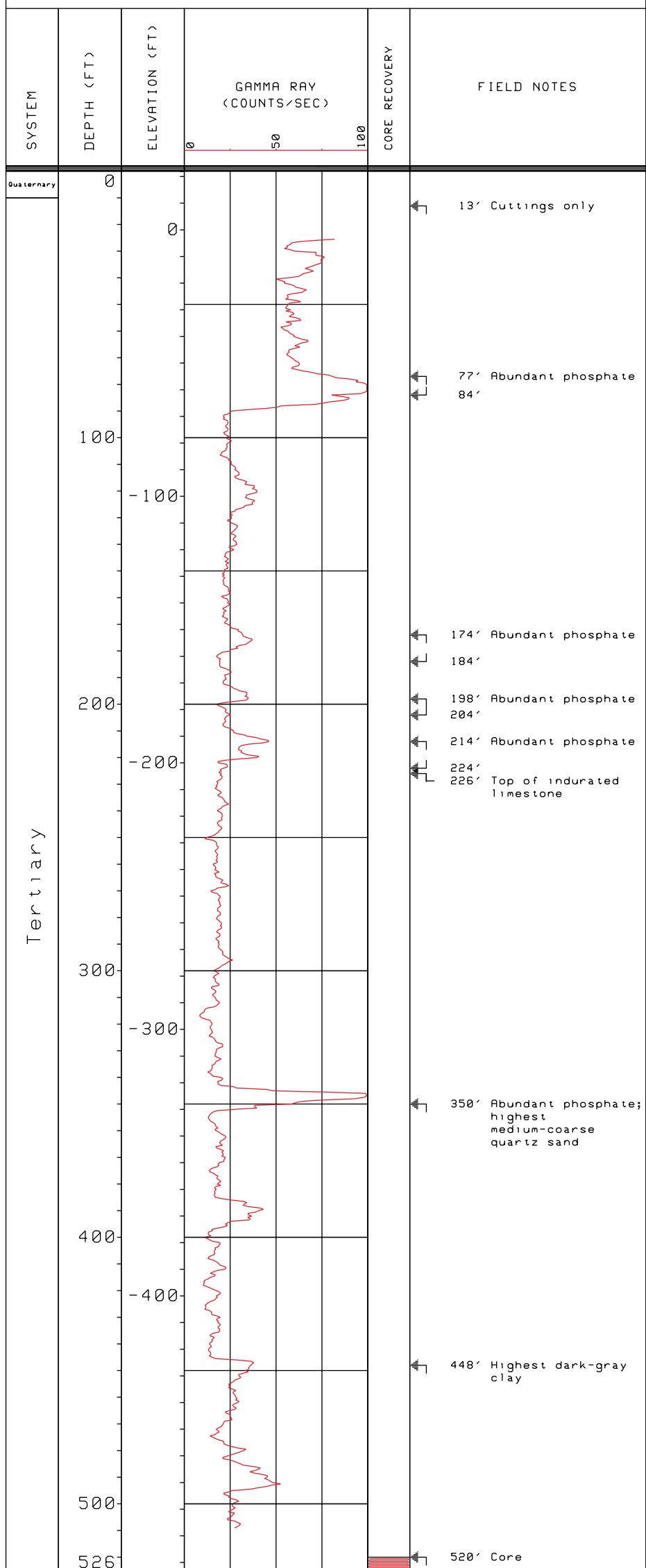
St. George core (DOR-211) -- Tertiary Calcareous Nannofossils

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DOR-st1 FIELD LOG

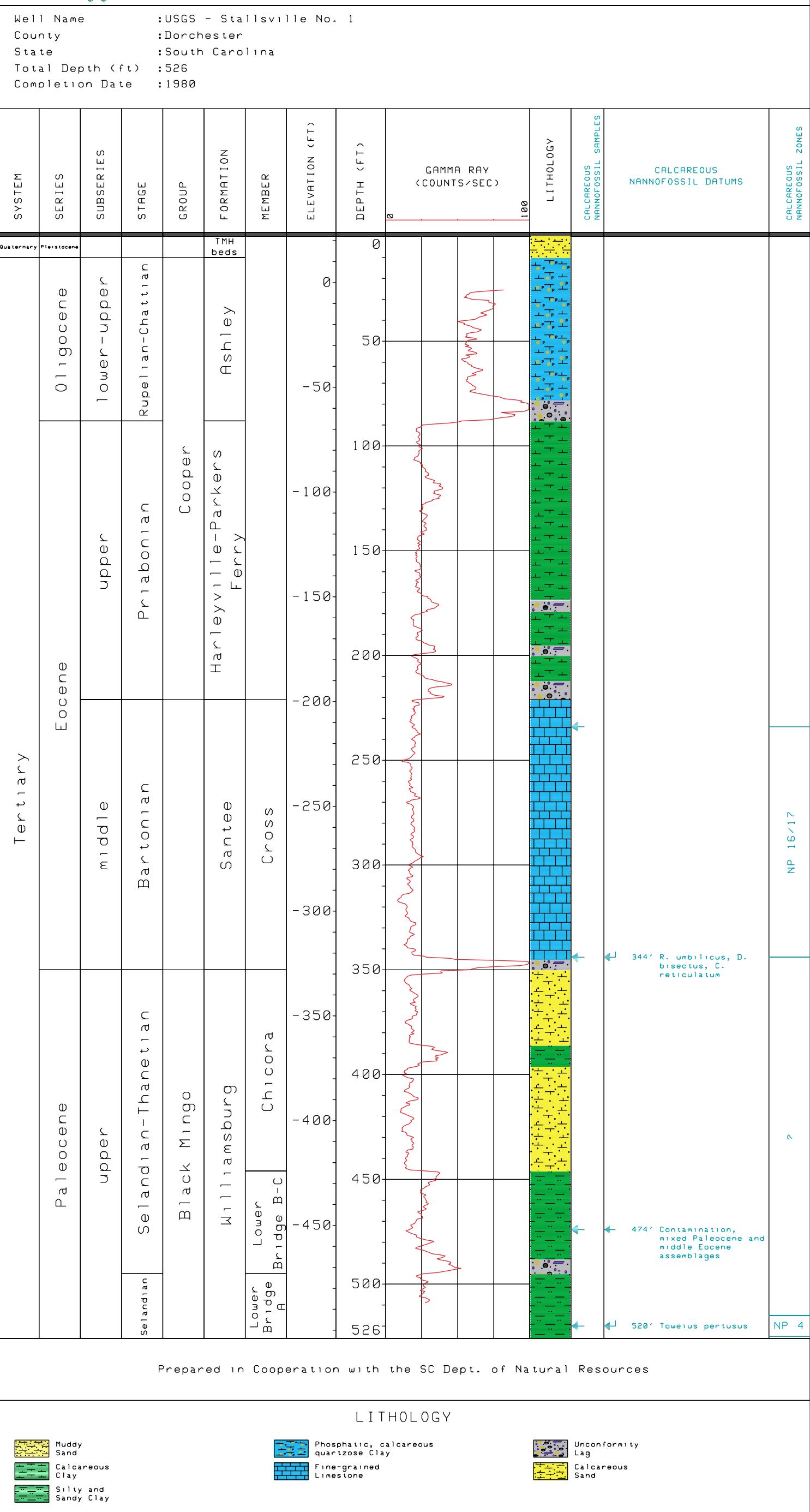
Well Name : USGS - Stallsville No. 1
County : Dorchester
State : South Carolina
Total Depth (ft) : 526
Completion Date : 1980



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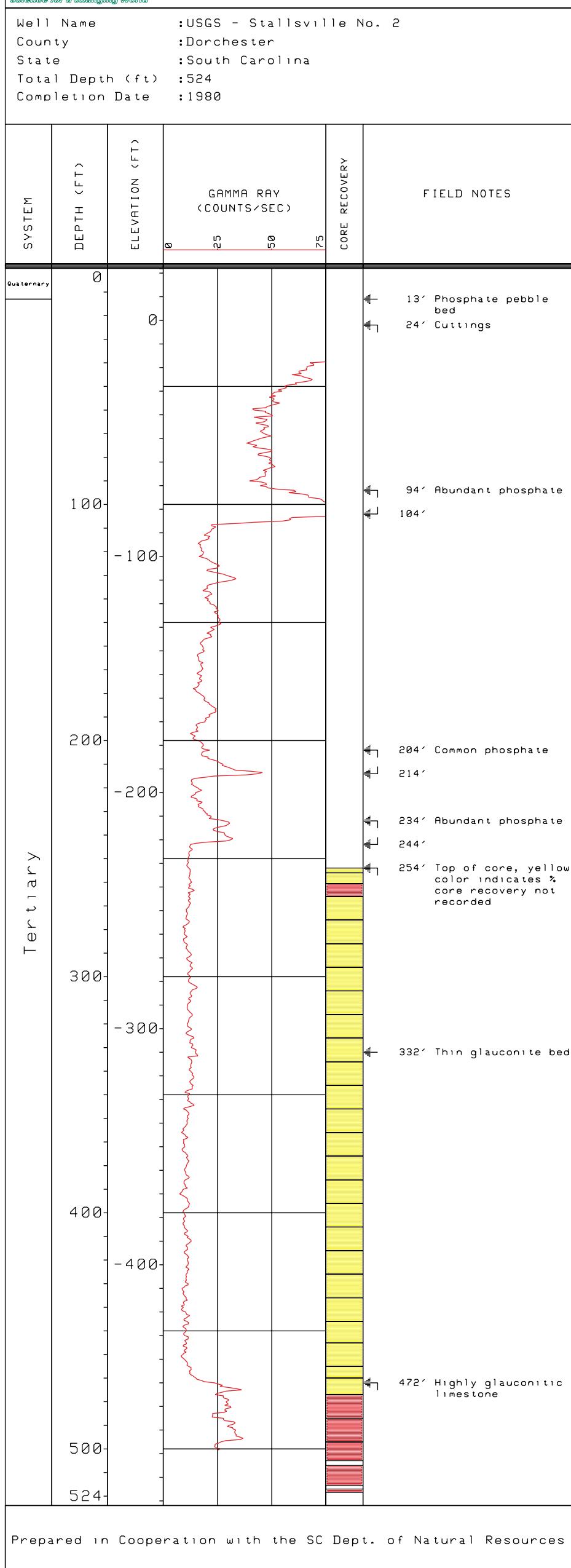


DOR-s1 GEOSUMMARY LOG





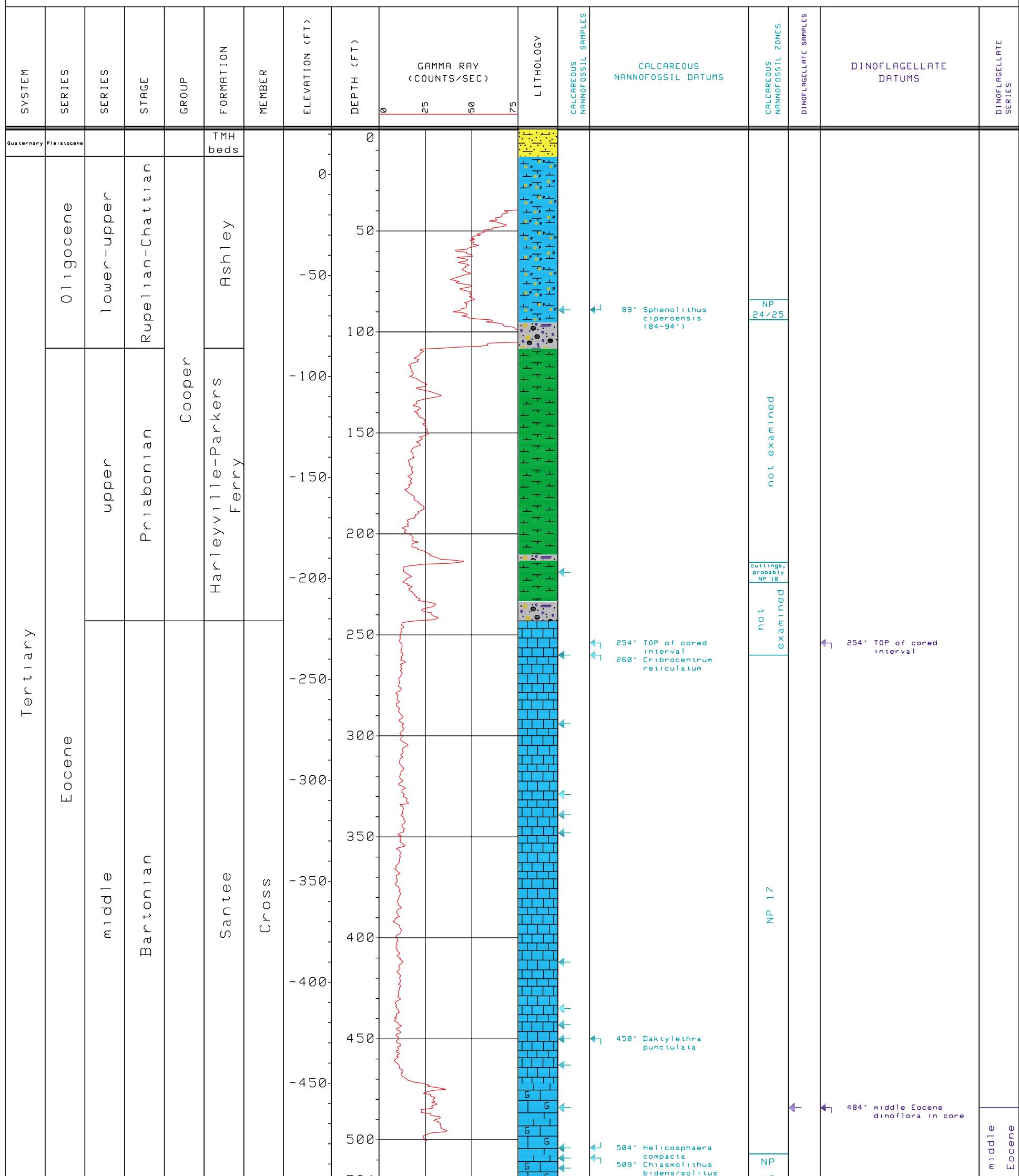
DOR-st2 FIELD LOG





DOR-st2 GEOSUMMARY LOG

Well Name : USGS - Stallsville No. 2
County : Dorchester
State : South Carolina
Total Depth (ft) : 524
Completion Date : 1980



Prepared in Cooperation with the SC Dept. of Natural Resources

LITHOLOGY

	Phosphatic, calcareous quartzose Clay
	Fine-grained Limestone

DOR-St2, Tertiary Calcareous Nannofossils

Series	Eocene												Olig
Subseries	Middle												U
Formation	Santee Limestone												H-P
Member	Cross												Ashley
Calcareous Nannofossil Zone (Martini, 1971)	NP 18??	224-214	94-84										NP 24-25
Species	Depth (feet)												
<i>Blackites creber</i>	524	X	.	.	.	.	.	.	.	.	.	.	.
<i>Blackites spinosus</i>		X	.	.	X	X	.	.	.	X	.	.	.
<i>Blackites tenuis</i>		.	X	.	X	X	.	.	.	X	.	.	.
<i>Blackites</i> spp.		.	.	X	.	.	.	X	X	X	.	X	.
<i>Braarudosphaera bigelowii</i>		X	X	.	X	X	.	X	X	.	.	X	.
<i>Braarudosphaera</i> spp.		.	.	.	.	.	.	X	X	.	.	.	.
<i>Campylosphaera dela</i>		X	X	X	X	X	.	.	.	.	.	.	.
<i>Cepekiella lumina</i>		.	X	X	X	.	X	X	.	X	X	.	X
<i>Chiasmolithus bidens/solitus</i>		X	1	X	X	.	.	.	.	.	.	.	.
<i>Chiasmolithus grandis</i>		.	.	.	X	.	.	.	.	.	.	.	.
<i>Chiasmolithus titus</i>		.	X	X	X	X	X	X	.	X	X	X	.
<i>Chiasmolithus</i> spp.		.	.	.	.	X	.	.	.	.	.	.	.
<i>Coccolithus cribellum</i>		.	.	.	X	.	.	.	.	.	.	.	.
<i>Coccolithus eopelagicus</i>		X	.	X	X	X	X	X	X	.	X	X	X
<i>Coccolithus pelagicus</i>		X	X	X	X	X	X	X	X	X	X	X	X
<i>Cribrocentrum reticulatum</i>		X	X	X	X	X	X	X	X	X	X	X	X
<i>Cruciplacolithus</i> spp.		.	.	.	X	.	.	.	.	.	.	.	.
<i>Cyclococcolithus formosus</i>		X	X	X	X	X	X	X	X	X	X	X	X
<i>Cyclococcolithus protoannulus</i>		.	X	X	X	.	X	.	X	.	.	X	.
<i>Daktylethra punctulata</i>		X	.	.	X	.	X	.	.	.	.	.	.
<i>Dictyococcites bisectus</i>		.	.	X	.	X	X	X	X	X	X	X	X
<i>Dictyococcites scrippsaee</i>		.	.	.	X	X	X	X	X	X	X	X	.
<i>Discoaster barbadiensis</i>		X	X	.	X	X	.	.	X	.	X	X	.
<i>Discoaster distinctus/deflandrei</i>		.	.	.	.	X	.	X	.	.	X	.	.
<i>Discoaster saipanensis</i>		.	X	.	X	.	.	.	X	.	.	X	.
<i>Discoaster woodringii</i>		.	.	.	.	.	.	.	.	.	.	X	.
<i>Discoaster</i> spp.		.	.	.	.	X	.	X	.	.	.	.	.
<i>Ericsonia obruta</i>		.	.	.	X	.	X	.	X	X	.	.	X
<i>Goniolithus fluckigeri</i>		.	.	.	.	X	.	.	.	.	.	.	.
<i>Helicosphaera bramlettei</i>	1?	.	.	.	.	.	?	.	.	.	.	.	.
<i>Helicosphaera carteri</i>		.	.	.	.	.	.	.	.	.	.	.	X
<i>Helicosphaera compacta</i>		.	.	?	X	X	X	X	X	X	X	X	X
<i>Helicosphaera euphratis</i>		.	.	.	.	.	.	.	.	.	.	.	?
<i>Helicosphaera heezenii</i>		.	.	.	.	X	.	.	.	.	.	.	X
<i>Helicosphaera intermedia</i>		.	.	.	.	.	.	.	.	.	.	.	.
<i>Helicosphaera lophota</i>		X	X	X	X	.	X	.	.	.	.	.	.
<i>Helicosphaera reticulata</i>		.	.	1?	.	.	.	.	.	.	.	X	.
<i>Helicosphaera seminulum</i>		.	X	X	X	X	X	X	.	.	.	.	.
<i>Helicosphaera seminulum/bramlettei</i>		.	X	.	.	.	X	.	X	.	.	X	.
<i>Helicosphaera</i> spp.		X	.	.	.	.	.	.	.	.	.	.	.
<i>Lanternithus minutus</i>		.	.	.	.	.	.	X	.	.	.	X	.
<i>Markalius inversus</i>		X	X	.	X	X	.	X	X	.	X	.	.
<i>Micrantholithus</i> spp.		.	.	.	.	.	.	.	.	.	.	.	.
<i>Neococcilithes dubius</i>		.	.	.	X	.	X	.	.	.	.	.	.
<i>Neococcilithes</i> spp.		X	.	X	.	X	.	X	X	.	.	.	.
<i>Pedinocyclus larvalis</i>		.	X	.	X	.	.	.	.	.	.	X	.
<i>Pemma basquense</i>		.	.	.	.	X	X	X	.	.	.	X	.
<i>Pemma papillatum</i>		.	X	.	X	X	.	.	X	.	.	X	.
<i>Pemma rotundum</i>		.	.	.	.	.	?	.	.	.	.	.	.
<i>Pemma serratum</i>		.	.	.	.	.	.	.	.	.	X	.	.
<i>Pemma</i> spp.		.	.	.	.	X	.	.	X	X	X	X	.
<i>Pentaster lisbonensis</i>		.	.	.	X	.	.	.	.	.	.	.	.
<i>Pontosphaera multipora</i>		.	.	.	X	X	.	.	.	.	.	.	.
<i>Pontosphaera wechesensis</i>		.	X	.	X	.	.	X	.	.	.	.	.
<i>Pontosphaera</i> spp.		.	X	.	.	.	.	.	.	.	.	.	.
<i>Pseudotriquetrotahabdulus inversus</i>		.	.	.	X	.	.	.	.	.	.	.	.
<i>Reticulofenestra abisepta</i>		.	.	.	.	.	.	.	.	.	.	.	X
<i>Reticulofenestra daviesii</i>		X	X	.	X	X	.	X	X	.	.	X	X
<i>Reticulofenestra floridana</i>		X	X	X	X	X	X	X	X	X	X	X	X
<i>Reticulofenestra hillae</i>		X	X	.	.	.	.	.	.	X	X	.	.
<i>Reticulofenestra pseudodockeri</i>		.	.	.	.	.	.	.	.	.	.	.	X
<i>Reticulofenestra umblicus</i>		X	X	X	X	X	X	X	X	X	.	X	.
<i>Reticulofenestra</i> sp. large		X	X	.	.	X	X	.	.	.	.	.	.
<i>Rhabdosphaera gladius</i>		.	.	.	.	.	.	1	.	.	.	.	.
<i>Sphenolithus ciperoensis</i>		.	.	.	.	.	.	.	.	.	.	.	X
<i>Sphenolithus moriformis</i>		X	X	X	X	X	X	X	X	X	X	X	X
<i>Sphenolithus obtusus</i>		.	X	.	.	.	.	.	.	.	.	?	.
<i>Sphenolithus predistinctus</i>		.	.	.	.	X	.	X	.	.	.	.	.
<i>Sphenolithus pseudoradians</i>		.	X	.	X	X	.	.	.	.	.	X	.
<i>Sphenolithus radians</i>		.	.	.	.	.	?	?	.	.	.	.	.
<i>Sphenolithus</i> spp.		.	.	.	.	.	.	.	X	X	.	.	.
<i>Thoracosphaera</i> spp.		X	X	.	.	.	.	.	.	X	.	X	X
<i>Transversopontis pulcher</i>		.	X	.	.	X	.	.	.	.	.	.	X
<i>Transversopontis pulcherooides</i>		X	X	X	X	X	X	X	X	X	X	.	X
<i>Transversopontis zigzag</i>		X	X	.	X	.	X	.	X	X	X	.	.
<i>Zygrhablithus bijugatus</i>		X	X	X	X	X	X	X	X	X	X	X	X
Cretaceous forms		.	.	X	.	.	.	.	.	.	.	.	.
Abundance	C A A A C A A C- F+ C- C- A A+ C+ C+ A-												A- A-
Preservation	M G P P M M P M+ M- P P P P P M P												P M
Depth (feet)	521.5	524	509	NP 16?	NP 17	NP 18??							
Calcareous Nannofossil Zone (Martini, 1971)	NP 16	NP 16	NP 16										NP 24-25
Member													Ashley
Formation													H-P
Subseries													U L-U
Series													Olig

U, upper; H-P, Harleyville-Parkers Ferry Formations; X, present; .,not present; ?, possible occurrence; C=specimens from downhole contamination; 1=only one specimen observed. For abundance: A=abundant or greater than 10 specimens per field of view; C=common or 1 to 10 specimens per field of view; F=frequent or 1 specimen per 1 to 10 fields of view; R=rare or 1 specimen per greater than 10 fields of view. All fields of view at 640x magnification. For preservation: G=good; M=moderate; P=poor; T=terrible.

DOR-St2, Tertiary Calcareous Nannofossils

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